

UNIVERSITY OF TWENTE.



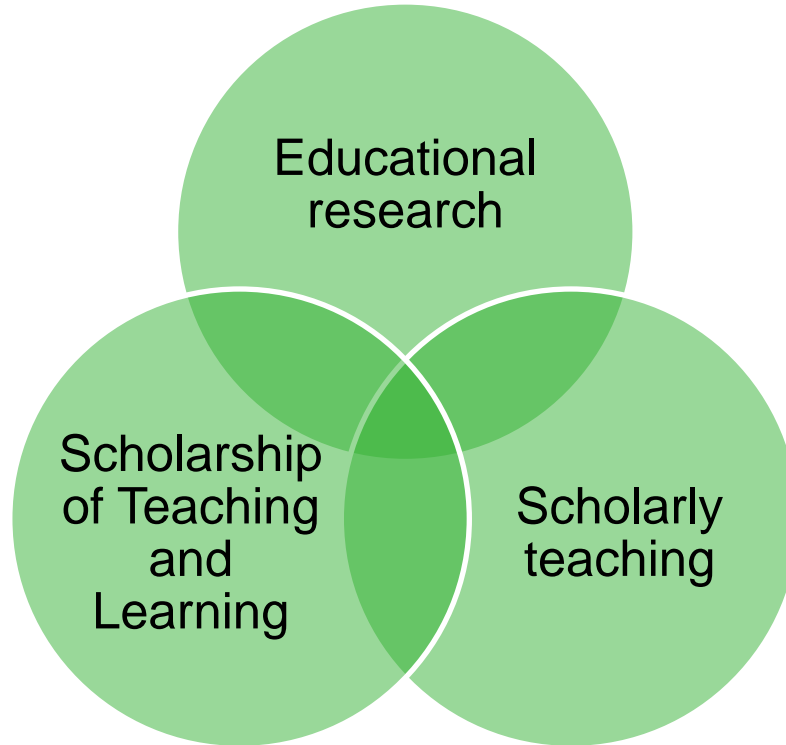
# THE IMPORTANCE OF EMBEDDING DISCIPLINARY EDUCATION RESEARCH WITHIN THE DISCIPLINE

TRACY CRAIG, 4TU:AMI SUMMER EVENT 2022



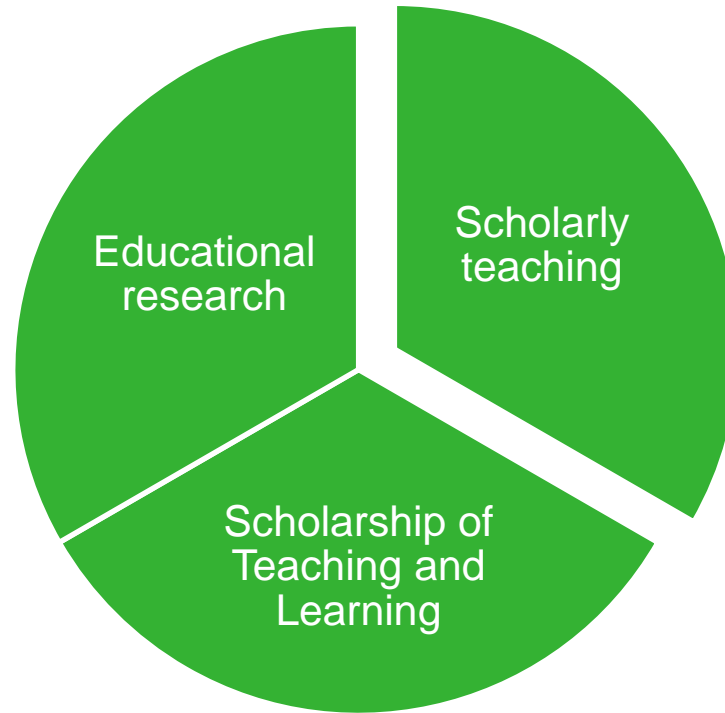
# TEACHING AND EDUCATIONAL RESEARCH

---



# A DISCONNECT

---



# EXAMPLES

---

The preimage concept  
in linear algebra

Development of critical  
thinking in mathematics  
classes

Partially automated  
individualized assessment

Active learning strategies with  
positive effects on students'  
achievements

Integrated teaching of mathematics  
and biology: tumour cell aneuploidy

Students' ability to  
determine the truth value  
of mathematical  
propositions

Interplay between mathematics and  
engineering subjects

Mathematical modelling and  
student sense making

Using peer instruction in an  
analysis course

Students' understanding of  
parametric equations and  
curves

# SUPPORTING SCHOLARLY TEACHING

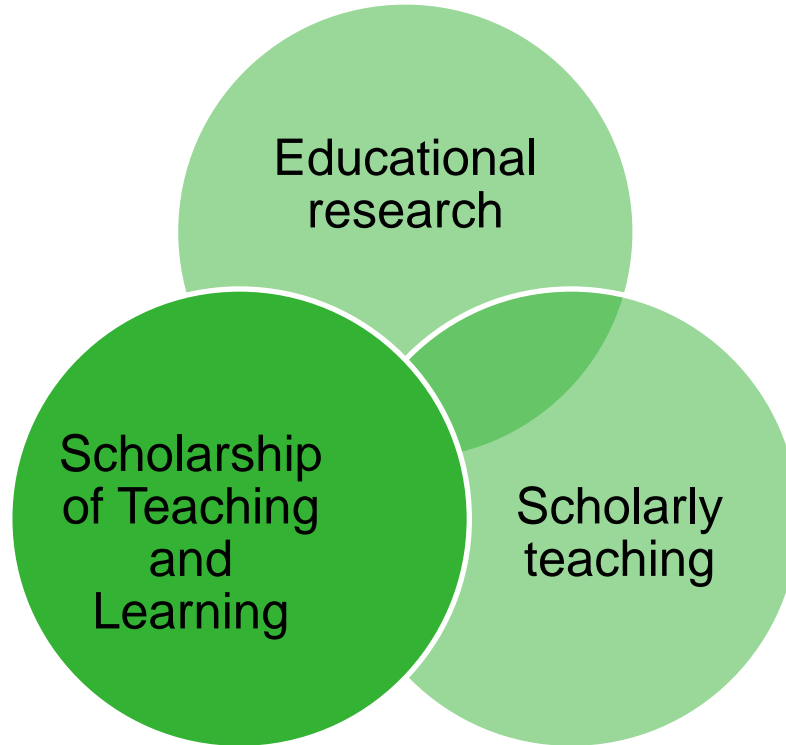
---

- Reading group
- Bulletin board
- New journal alerts

# SCHOLARSHIP OF TEACHING AND LEARNING

SOTL

---



# JOURNALS

IJMEST AND TMAIA

---

- International Journal of Mathematical Education in Science and Technology
  - Research articles and Classroom Notes
- Teaching Mathematics and its Applications
  - Section A and Section B